

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Property	Estimated Damage Crops	Character of Storm	June 1997
<u>NEW MEXICO Southeast</u>										
Eddy County										
9 SSW Carlsbad	04	1935MST			0	0			Hail (1.00)	
Eddy County										
2 SE Loving	04	1945MST			0	0		100K	Hail (1.75)	
Farms southeast of Loving were hit hard with cotton and oats being destroyed.										
Eddy County										
Loving to	04	1945MST			0	0	600K		Thunderstorm Wind (G54)	
1 NW Malaga										
Very intense severe thunderstorm pummelled Loving, especially the southeast part of town, with hail up to golfball size and 60-65 mph winds. Numerous windows were broken out of homes by the fast-moving hail. Also, tree damage ranged from being uprooted to losing large branches, to being stripped of all then- leaves. A few power poles were blown down as well. The damage covered about a 10 city block area. One mobile home was considered totaled by an insurance company. The storm moved southeast but weakened as it approached Malaga.										
An upper level ridge over the area that had suppressed thunderstorm activity over the previous two days, weaken slightly, and with a moist upslope flow into the Sacramento Mountains, thunderstorms developed. An upper level flow from the north-northwest brought the storms into the plains where dew points were in the lower 60s. Thunderstorms intensified over the Carlsbad and Loving areas then quickly diminished just after 900 pm MDT.										
Eddy County										
7 NW Artesia	10	1825MST			0	0			Hail (1.75)	
Eddy County										
7 NW Artesia	10	1825MST			0	0			Thunderstorm Wind (G52)	
Eddy County										
5 NW Artesia	10	1840MST			0	0	10K		Hail (2.75)	
A storm that formed over the Sacramento Mountains moved into northern Eddy County and became an LP supercell northwest of Artesia where baseball size hail was produced. Damage included cracked windshields, broken windows in cars and houses, and a barn that had holes punched in its corrugated metal roof and walls. Surface temperatures in the area were in the upper 80s with dew points in the lower 60s.										
Eddy County										
31 ESE Carlsbad	11	1440MST			0	0			Hail (1.75)	
Lea County										
33 WSW Eunice	11	1440MST 1442MST			0	0			Hail (1.75)	
Golfball size hail was reported along the Eddy/Lea County line on State Highway 128.										
Lea County										
1 SSE Lovington	11	1545MST			0	0	200K		Thunderstorm Wind	
A large warehouse suffered heavy damage from microburst winds. The event was very localized as the manager of the warehouse was in an adjacent building and did not notice any extreme winds. No one was in the warehouse when it was hit by the winds. The manager was alerted to a problem when the alarm for the sprinkler system for the warehouse was activated. The winds blew out parts of the west and east walls as well as damaged much of the roof This storm moved rapidly to the ENE and joined in the line that formed in West Texas.										
Lea County										
Jal	11	1550MST			0	0			Hail (1.00)	
Lea County										
2 S Jal	11	1606MST			0	0	3K		Thunderstorm Wind	
A carport was picked up and thrown by downbursting winds from an HP Supercell RFD. Also a large, but dead, elm tree was uprooted.										
These storms formed in the Sacramento Mountains and moved to the east into rich moisture. The storms were originally multicell clusters, but as the storms moved into Lea County southward development briefly developed an HP Supercell that crossed over Jal. RFD winds from this southern-most cell caused damage south of Jal.										
Lea County										
Crossroads	11	1530MST			0	0			Thunderstorm Wind (G52)	
60 mph wind gust reported by a rainfall observer. The winds were the result of a collapsing cell in a large cluster.										
Eddy County										
18 SW Carlsbad	14	1216MST			0	0			Hail (0.75)	

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					Killed	Injured	Property	Crops	

NEW MEXICO Southeast

Eddy County Carlsbad	14	1229MST 1233MST			0	0			Thunderstorm Wind (G57)
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A large area of showers was moving to the northeast through southeastern New Mexico with embedded thunderstorms. One of the storms that passed over Carlsbad had 65 mph wind gusts that snapped large tree limbs.

Lea County 2 E Hobbs	14	1330MST			0	0	1K		Thunderstorm Wind
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This same area of showers and storms moved into Lea County and knocked down power lines and snapped off numerous tree limbs. Strong winds were reported across much of Lea County, but resulted in little damage.

Several factors came together on this Saturday afternoon. In the upper levels the remnants from Tropical Storm Blanca passed through the area in a southwesterly flow. At the surface, dew points were near 70 degrees over much of the region and the dry line was located just east of the mountains.

The first storms were generated in the relatively dry air and formed into a NW-SE oriented line. When this line intersected the dry line, storms began to form southward along this convergent area.

The modified 1200 UTC MAF sounding on the SHARP workstation indicated a mean parcel buoyancy of 2900 J/kg and a best parcel buoyancy of 5200 J/kg.

NMZ029 Lea	16	1600MST 1630MST			0	0	300K		High Wind (G61)
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Strong gradient winds behind a developing late-season cold front were enhanced by thunderstorm outflow to produce damaging winds Hobbs. Thunderstorms remained well to the north of the city and the widespread nature of the winds suggested that the thunderstorms had only a minor role in the generation of the winds. Damage was reported in the southern 3/4 of Hobbs. Numerous large trees were downed or lost main limbs. Sections of many roofs were peeled up, and power lines and poles were knocked down as well. The emergency manager estimated the winds gusting to 70 mph in some parts of town. The airport west of town sustained a 52 mph gust but reported no damage.

Eddy County 14 W Carlsbad	26 27	2300MST 0300MST			0	0			Flash Flood
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Heavy rains west of Carlsbad started arroyos running that covered State Highway 137. Several water crossings were 2 feet deep with running water.

Eddy County 1 W Lakewood	27	0100MST 0230MST			0	0			Flash Flood
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State Highway 381 "Flooded west of Lakewood at the northern branch of the Seven Rivers Arroyo crossing.

TEXAS West

Jeff Davis County 10 NW Ft Davis	01	1653CST			0	0			Hail (0.75)
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Jeff Davis County 37 NNW Ft Davis	01	1740CST 1755CST			0	0			Hail (1.00)
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Two multicell clusters of thunderstorms developed over the Davis Mountains and moved southward. The early report was at McDonald Observatory and the later report was along I-10 at the Cherry Creek exit.

Jeff Davis County 7 N Valentine	04	1433CST 1437CST	0.3	40	0	0			Tornado (F0)
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A severe thunderstorm that produced golfball size hail at Valentine spawned a brief landspout tornado north of town.

Jeff Davis County Valentine	04	1445CST 1450CST			0	0			Hail (1.75)
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Presidio County 20 NNW Presidio	04	1730CST 2000CST			0	0			Flash Flood
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Heavy rains east of the Rio Grande filled local arroyos that sent flood waters across State Highway 170 upstream from Presidio. Department of Transportation employees worked through the night to clear sand and other debris from the highway.

TXZ079 Presidio Valley	04 05	1900CST 0200CST			0	0	10K		Flood
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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property	Crops	Character of Storm	
<u>TEXAS West</u>										
Widespread heavy rains from thunderstorms in the Rio Grande basin above Presidio caused River Flooding near Candelaria. A sharp flood crest of 14.1 ft (flood stage 7.5 ft) damaged the river gauge at Candelaria. The flood crest was attenuated as it moved downstream, reaching Prestdio around 6am CDT on the 5th. By this time the crest was below bank full levels.										
Upper level ridge which had suppressed convection the previous two days weakened slightly and with a moist low level flow into the mountains thunderstorms developed in the higher terrain. Surface dew points were in the mid to upper 50s in far west Texas. The MAF 00Z sounding showed 1.17 inches of precipitable water.										
Culberson County Pine Spgs	04	1737MST			0	0			Hail (0.75)	
Culberson County 20 SSW Pine Spgs	07	1745CST 1749CST	0.8	80	0	0			Tornado (F0)	
A tornado was reported by a rancher near the Hudspeth County line 10 miles south of U.S. Highway 62/180 in the Sierra Diablo Mountains.										
Culberson County Pine Spgs	07	1745CST			0	0			Hail (1.00)	
A quite rare event with a tornado watch issued primarily for the mountains of S W Texas and Far West Texas. An upper level low located near the northern Gulf of California at daybreak was moving into the region from the southwest and helped to add midlevel support for the development of severe thunderstorms. A favorable vertical profile with SSE winds near the surface at 15-20 kt and a SW wind aloft at 40-45 kt gave a favorable shear. The storm that produced the tomado near the Hudspeth Co. line started in southwestern Hudspeth County about 20 miles west of Sierra Blanca and intensified rapidly into a supercell.										
Pecos County Ft Stockton	08	0517CST			0	0			Hail (1.00)	
Borden County 14 NW Gail	08	0745CST 0930CST			0	0			Flash Flood	
FM 1054 was flooded up on the Caprock.										
Scurry County Knapp	08	0830CST 1030CST			0	0			Flash Flood	
Heavy morning rains over the southwest part of the county flooded roads in the Knapp area. Roads 3S and 2NE of Knapp were flooded.										
Scurry County 1 N Ira	08	0845CST 1045CST			0	0			Flash Flood	
Flooding also occurred near the Ira area from the same storms that flooded the Knapp area.										
Scurry County Snyder	08	0900CST 1100CST			0	0	3K		Flash Flood	
Heavy morning rains caused widespread street flooding in the city of Snyder. A city park had flooding that caused a large whirlpool as the water flowed into a drainage grate. Flooding rose into three units of an apartment complex.										
Reagan County 4 N Stiles	08	0845CST 1000CST			0	0			Flash Flood	
Water was running across State Highway 137, but not enough to close the roadway.										
Reagan County 5 SE Stiles	08	0855CST 1000CST			0	0			Flash Flood	
Water was running across Ranch Road 33 in the central portions of the county.										
Pecos County Ft Stockton	08	1245CST 1253CST			0	0			Hail (0.75)	
Martin County 3 N Lenorah	08	1330CST 1600CST			0	0			Flash Flood	
Water flowing across Highway 137 washed mud and silt across the highway. Even after the water receded the mud was so thick that Highway crews had to work through the night to clear the roadway.										
Ward County Grandfalls	08	1330CST			0	1			Lightning	

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<u>TEXAS West</u>										
A 16 year old male received an indirect lightning strike. He was taken to Ward Memorial Hospital in Monahans and transferred to Odessa Medical Center for testing, and was released late that night. The boy and his mother were walking across their porch leaving the house when lightning struck a metal pipe along the side of the house. The boy was struck in the head by a glancing blow from the bolt, knocked to the ground, but sustained no burns. He was dazed but never lost consciousness; he said he remembered feeling the shock as the bolt went through his body. They said the lightning came seemingly from nowhere as all the previous thunder had seemed quite distant. Light rain was falling at the time of the incident.										
Ector County 1.5 N Odessa	08	1340CST 1600CST			0	0			Flash Flood	
Flooding over the curbs and into yards occurred near the University and Eisenhower intersection.										
Midland County 4 WNW Midland	08	1410CST 1500CST			0	0			Flash Flood	
Flooding along Andrews Highway near the intersection of Bates Rd. spilled over the curb and almost entered a home.										
Midland County 2.5 NW Midland	08	1430CST 1600CST			0	0			Flash Flood	
Torrents of water running under Golf Course Road in Midland undermined the roadway resulting in an eight foot wide collapse of the pavement into a hole. One car wrecked in the hole with the driver sustaining minor injuries. It took about two weeks for road crews to repair the road and associated drainage.										
Midland County 2 N Midland	08	1415CST			0	0			Thunderstorm Wind (G52)	
60 mph winds reported by a SKYWARN spotter in Midland.										
Howard County 11 NE Big Spring	08	1430CST 1600CST			0	0			Flash Flood	
Flooding occurred on State Highway 350. Barricades to slow traffic approaching the flooded area were posted but the highway was not closed.										
Glasscock County 13 WSW Garden City	08	1430CST 1730CST			0	0			Flash Flood	
Highway 137 south of State Route 158 flooded from over 3 inches of rains in the area.										
Mitchell County Colorado City	08	1445CST 1545CST			0	0	10K		Flash Flood	
Interstate 20 and Highway 208 were flooded in and around Colorado City. Several wrecks were attributed to the rain.										
Glasscock County St Lawrence	08	1500CST 1745CST			0	0			Flash Flood	
FM 2401 flooded from 3 inch rains in the area.										
TXZ053	Mitchell 08 12	2000CST 0600CST			0	0	100K	20K	Flood	
An upper level low pressure system was moving slowly eastward out of Arizona into New Mexico during the early morning of the 8th. Several upper level disturbances were rotating around this feature into West Texas. Deep tropical moisture remained over the region with precipitable water values well above normal. Thunderstorms moved into the Texas Big Country before noon. As these storms moved eastward, they formed into a slow-moving squall line producing very heavy rainfall over already saturated soils.										
The Colorado River at Colorado City rose above flood stage during the night of the 8th and crested just over 14 feet (flood stage is eight feet) on the 10th.										
Terrell County 24 NNE Sanderson	09	1900CST 2100CST			0	0			Flash Flood	
Water running across Ranch Road 2886 washed debris onto the road.										
Terrell County 34 NNE Dryden	08	1945CST 2100CST			0	0			Flash Flood	
Water rushing across State Highway 349 washed out a 60 foot section of pavement one mile north of Independence Creek.										
An E-W outflow boundary in the Midland/Odessa area was a low-level focusing mechanism for convection this day, but probably the most obvious lifting feature was the impressive diffluence over the area. Two lines of storms developed and moved through the Permian Basin. Precipitable water on the 00Z sounding was 194% of normal at MAF.										
One interesting note to this overall scene was that there was no sun in the Midland/Odessa area as stratus and statocumulus clouds filled in gaps between storms and between lines of storms. After the first line of storms moved through the central Permian Basin, the usual subsidence and rising cloud bases was not seen--instead, low scud raced to the WNW to the developing line of storms in the western Permian Basin. Late in the afternoon as the upper-level lift began to pass the region, finally the sun shined a couple of hours before sunset. The high temperature this day was only 73 degrees at MAF.										
Brewster County Lajitas	11	1536CST			0	0			Hail (0.88)	
Unusually high amounts of moisture in the Big Bend region for this early in the season with dew points in the upper 50s. Thunderstorms developed over the high terrain in Mexico up the Rio Grande from Lajitas. The storms moved east and intensified with nickel size hail falling at the Lajitas Trading Post.										
Winkler County 18 NE Kermit	11	1654CST 1656CST	0.5	60	0	0			Tornado (F0)	
Ector County 6 NW Notrees	11	1656CST 1658CST	0.5	60	0	0			Tornado (F0)	

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					Killed	Injured	Property	Crops	
TEXAS West									
A tornado was reported by a spotter 6 miles north of Highway 302 on the Winkler/Ector County line. The tornado was in open country and rapidly dissipated as the storm split.									
Andrews County 1 W Andrews	11	1730CST			0	0			Hail (1.00)
Andrews County Andrews	11	1740CST			0	0	10K		Thunderstorm Wind (G52)
A storm that rapidly developed along an outflow boundary in southern Winkler County produced a tornado as it crossed into Ector County. The storm then split--the right-mover died, but the left-mover re-intensified moving quickly to the NNE and dropped one inch hail on Andrews. Storms from southern Lea County, NM moved east into the area and merged with the Andrews storm. Downbursting winds in Andrews were estimated at 60 mph. A houseboat was blown off its trailer, rolled over two cars, and landed on its top. The structure remain intact, but sustained much damage nonetheless.									
Ector County 10 NW Goldsmith	11	1704CST			0	0			Hail (1.75)
Andrews County 18 SW Andrews	11	1706CST			0	0			Hail (1.75)
A WNW-ESE outflow boundary between an HP Supercell near Jal, NM and the left-split storm in Andrews County served as a focus for this storm that dropped golfball size hail on the Andrews/Ector County line.									
Ward County Barstow	11	1730CST 1740CST			0	0			Hail (1.75)
Gaines County Seminole	11	1745CST			0	0	0.50K		Thunderstorm Wind
An awning from a mobile home was blown off but sustained little damage.									
This storm developed from outflow on the north side of a severe storm in southern Lea County, NM. The storm was still in the developing stages when it produced the downburst winds in Seminole. As the storm proceeded to the east-northeast it became the apex cell of the line that moved through northern Dawson County.									
Dawson County 3 E Welch	11	1815CST			0	0			Thunderstorm Wind (G61)
Dawson County 6 NNW Lamesa	11	1822CST			0	0	5K		Thunderstorm Wind
A large tree and power lines were downed by outflow winds along State Highway 137 north of Lamesa.									
Dawson County 10 NE Lamesa	11	1830CST			0	0			Thunderstorm Wind (G61)
Borden County 16 NW Gail	11	1852CST			0	0			Thunderstorm Wind (G57)
Between about 5pm and 7pm CDT the mid-level flow veered sending storms that had been moving to the northeast now to the east. Storms moving east through eastern Gaines County began to organize into a line with storms in Andrews County. As the storms continue to moved to the east into Dawson County a large scale bow formed on the line with the apex in northern Dawson County. Numerous wind damage events occurred as the apex of this line raced to the east at 50 mph. Wind estimates by spotters were in the 65-70 mph range.									
Upton County Mc Camey	11	1959CST 2004CST			0	0			Thunderstorm Wind (G52)
Pecos County Belding	11	2140CST			0	0			Hail (1.75)
The synoptic setting for this event included a surface trough located from the northeastern Texas Panhandle southwest into northern Eddy County, New Mexico. Surface Moisture values were relatively high with dew points in the lower to mid 60s on both sides of the trough. Storms initially developed in the high terrain of southern New Mexico, Far West Texas, and northern Chihuahua and then formed along the trough as well. Storms began primarily as single and multicell hail producers, but in the evening became a multicell line event with damaging winds.									
Reeves County Pecos	12	1755CST			0	0			Thunderstorm Wind (G52)
Sheriffs Office estimated 60 mph winds in the city and an anemometer recorded at 50 kt winds at the airport on the southwest side of the city.									
Pecos County Imperial	12	1813CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

Julie 1997

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Persons Injured	Estimated Damage Property Crops	Character of Storm
TEXAS West								
Crane County Crane	12	1900CST			0	0		Thunderstorm Wind (G52)
Ector County Odessa	12	1920CST			0	0		Thunderstorm Wind (G57)
Midland County 3 W Midland	12	1935CST			0	0		Thunderstorm Wind
Two power poles located about 1 mile apart were blown down in the southwest section of Midland.								
Dry downbursts formed in the late afternoon with surface temperatures in the Permian Basin in the upper 90s and readings in the Pecos Valley near 102 degrees. Dew point temperatures in the region were in the lower 50s.								
Gaines County 10 W Seminole	14	1440CST			0	0	10K	Thunderstorm Wind
Gaines County 2 W Seminole	14	1500CST			0	0	20K	Thunderstorm Wind
A wet macroburst caused damage west of Seminole. First utility poles were knocked down ten miles west of Seminole and as the storm approached the city a cotton gin sustained had part of a roof collapse and other damage.								
Ector County Gardendale	14	1515CST 1530CST			0	0		Hail (2.75)
A storm that developed over northern Ector County briefly showed supercell-type characteristics and dropped baseball hail on Gardendale.								
Midland County 4 NNW Midland	14	1540CST			0	0		Hail (1.25)
The Gardendale storm moved to the northeast while developing on its south end and brushed the north sections of Midland with hail slightly larger than a quarter.								
Martin County 17 WSW Stanton	14	1559CST			0	0		Hail (1.75)
Golfball size hail fell along the Midland/Martin County line on State Highway 349.								
Midland County 6 N Midland	14	1559CST			0	0		Hail (1.75)
Martin County 5 W Flower Grove	14	1610CST			0	0		Thunderstorm Wind (G52)
Martin County Stanton	14	1639CST			0	0	10K	Thunderstorm Wind
High winds knocked down power poles in Stanton								
Martin County Stanton	14	1640CST			0	0		Hail (0.75)
This storm formed of the southern flank of the storm that passed over north Midland.								
Midland County 7 NE Greenwood	14	1640CST			0	0		Hail (1.75)
This cell over northeastern Midland County developed very rapidly on the southern flank of the Stanton storm and briefly produced golfball size hail.								
Upton County Rankin	14	1703CST			0	0		Thunderstorm Wind (G52)
A 60 mph wind gust was reported as the line of storms moved through Rankin.								
Howard County Big Spring	14	1708CST 1715CST			0	0	10K	Thunderstorm Wind (G57)
As the line of storms moved eastward, the events began to change from hail events to wind events. In the city of Big Spring 65 mph winds were reported with large tree limbs broken and light aircraft at the airport overturned.								
Howard County 3 E Coahoma	14	1737CST			0	0		Thunderstorm Wind (G52)
A 60 mph wind gust was estimated as the line moved east of Coahoma.								

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TEXAS West									
Scurry County									
Snyder	14	1747CST			0	0	5K		Thunderstorm Wind
Farther north downbursting winds knocked down utility lines in Snyder.									
Several factors came together on this Saturday afternoon. In the upper levels the remnants from Tropical Storm Blanca passed through the area in a southwesterly flow. At the surface surface dew points were near 70 degrees over much of the region and the dry line was located just east of the mountains.									
The first storms were generated in the relatively dry air and formed into a NW-SE oriented line. When this line intersected the dry line, storms began to form southward along this convergent area. By 5pm CDT an almost continuous line of storms stretched across the radar screen from Lubbock to east of Ft. Stockton. By about 7:00 pm most of the storms had exited the region to the east. The modified 1200 UTC MAF sounding on the SHARP workstation indicated a mean parcel buoyancy of 2900 J/kg and a best parcel buoyancy of 5200 J/kg. Presidio Comity									
16 NW Presidio	15	1730CST 1740CST			0	0	8K		Thunderstorm Wind
Strong winds damaged a new double-wide mobile home.									
Presidio County 16 NW Presidio	15	1735CST 1740CST			0	0	7K		Hail (2.00)
Hail larger than golfball damaged a new pickup truck parked near the trailer that was damaged by the wind.									
Brewster County 20 NNW Terlingua to 17 N Study Butte	15	1840CST 1855CST			0	0	70K		Thunderstorm Wind
Wind damage occurred to several buildings on a ranch located on Taurus Mesa. Much of the damage was limited to corrugated metal that was strewn across the countryside. Rear-flank downdraft (RFD) winds were thought to have been the mechanism for the high winds. The RFD then hit State Highway 118 where the Longhorn Ranch Motel sustained wind damage. A 12x20 foot sign was blown down as well as damage to doors and the roof. The Red Cross determined that 2 houses were destroyed and 6 houses sustained major damage in the area near the motel.									
Brewster County 21 N Study Butte	15	1850CST			0	2	10K		Hail (4.50)
North of where the RFD winds caused damage, hail up to softball size smashed car windshields and pummelled a couple of houses. One gentleman, who was attempting to close a window, was injured when hail broke the window and caused several facial lacerations. He was taken by private vehicle to the Alpine Hospital. A second man suffered minor cuts on his legs.									
Brewster County 17 NE Study Butte	15	1915CST			0	0			Hail (1.75)
Golfball size hail fell on the northern sections of Terlingua Ranch.									
Brewster County 13 N Panther Junction	15	1950CST			0	0	3K		Hail (2.75)
Baseball size hail broke windows in at least one car in the northern portions of Big Bend National Park on the extension of U.S. Highway 385.									
Brewster County 12 N Panther Junction	15	1950CST			0	0			Thunderstorm Wind (G70)
Gravel from the side of the road was blown onto the park road 11-14 miles north of the Park Headquarters. All of the gravel was 1/2 to 3/4 inch in diameter. The event was not seen but was concluded by Park officials after noting there was no silt or smaller debris which would have suggested flash flooding. During one short stretch of the road, there was an extensive amount of gravel on the road.									
A strong thunderstorm in southern Presidio County moved into southwestern Brewster County and became a supercell. This storm had a continuous track of damaging winds and hail for 33 miles. This track could have been longer, but in this desolate area, no other reports were available. Although there was F 1 scale damage, there were no confirmed tornado sightings. Most of the significant damage was thought to have come from Rear-flank downdrafts, due to the location to the proximity of the large hail. The storm was moving to the ESE at 45-50 mph, so forward-flank downdrafts could have caused some of the damage as well due to the summation of outflow speed and translational speed. Along Highway 118 the fringe-to-fringe damage path was 8 miles wide--also suggesting large-scale outflow was a contributor to the damage.									
An unobstructed view from the northeast allowed people in the Midland/Odessa area to see the upper half of the storm from about 200 miles away just before sunset. The storm tower showed strong signs of rotation (in the form of large bands) even from this distance.									

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<u>TEXAS West</u>									
Terrell County Sanderson	15	2115CST			0	0	200K	Thunderstorm Wind	
			An HP supercell in the western part of Terrell County produced a bow echo on its southern flank as it approach Sanderson with the apex of the bow aimed at the town. Damaging winds rushed into town with torrential rains and mostly pea size hail. The most substantial damage was to a department store that had the roof blown off and the front wall collapse into the street. Signs were bent over, trees uprooted, and power poles broken. Also a large Texaco sign was blown down and dumpsters were overturned and pushed down alleys. It was evident from the damage that all the winds were blowing from the west or northwest.						
TXZ051-062	16	Martin - Midland 1700CST 1730CST			0	0		High Wind (G61)	
			A late-season cold front enhanced from thunderstorm outflow caused strong winds over much of the Permian Basin with winds estimated up to 70 mph in northeastern Midland and southwestern Martin Counties. Along I-20 in southwestern Martin County the combination of plowed fields and strong winds caused thick blowing dust that reduced visibilities reported as low as 10 yards by Department of Public Safety troopers. A major accident occurred when an 18-wheeler slammed into a slowing car on the highway. In all six 18-wheelers and several other vehicles were involved in the accident that resulted in several injuries. Since the weather phenomena was only a partial player in the accident none of the damages or injuries will be officially recorded.						
			The Midland County Fire Marshal estimated the wind gusts to be near 70 mph in the Greenwood area of northeast Midland County.						
Winkler County Kermit	19	1615CST			0	0	5K	Thunderstorm Wind	
			Microburst winds knocked down fences and blew a tree down in a city park.						
Ector County 6 W Odessa	19	1754CST			0	0		Thunderstorm Wind (G52)	
			60 mph wind reported by public.						
			Thunderstorms fired in a relatively dry air mass near the Pecos Valley. Surface temperatures in were near 104 degrees with dew points in the lower 50s. Microburst winds were generated by the storms --some causing damage.						
Martin County 2 S Stanton	20	1500CST			0	0		Hail (1.75)	
Ector County 12 S Odessa	20	1535CST			0	0		Hail (1.00)	
Midland County 2 NW Midland	20	1623CST			0	0		Hail (1.00)	
Dawson County 14 NNE Larnesa	20 21	1820CST 0200CST			0	0		Flash Flood	
			Heavy rains caused flooding on U.S. Highway 87 that made a 500 yard stretch of the highway impassable.						
Howard County 7 NE Big Spring	20	1910CST			0	0		Hail (0.75)	
Scurry County 8 SSE Snyder	20	1943CST			0	0		Hail (1.75)	
			The leading edge of a multicell cluster briefly developed a tight reflectivity gradient and an overhang. The storm briefly produced golfball size hail during this period. Storms initially developed along the dry line and moved into an unstable air mass with temperatures in the middle to upper 90s and dew points in the lower 60s. Buoyancy values were greater than 2000 J/kg.						
Ector County Odessa	20	1545CST			0	0	10K	Thunderstorm Wind	
			A thunderstorm with a dry microburst hit downtown Odessa and blew much of brick facade off a pawn shop. Hundreds of bricks came showering down onto the sidewalk and skittered into the middle of Grant Avenue, a main north-south thoroughfare in the city.						
Mitchell County 7 W Westbrook to 5 ESE Westbrook	20	2005CST 2024CST			0	0	200K 10K	Hail (1.75)	
			Hail damaged many vehicles on Interstate 20.						
Mitchell County Westbrook	20	2025CST 2130CST			0	0		Flash Flood	
			Heavy rains caused flooding in the streets of Westbrook.						
Mitchell County 5 S Colorado City	20	2130CST			0	0		Thunderstorm Wind (G50)	
Brewster County 25 SSW Marathon	23	1700CST			0	0		Hail (1.25)	
			Half dollar size hail was reported at a ranch.						
Brewster County 16 NE Study Butte	23	1730CST			0	0		Thunderstorm Wind	
			Outflow on the south edge of a thunderstorm peeled half the roof off a house. Power was knocked out as well over a large area until 10:30 the next morning.						

Storm Data and Unusual Weather Phenomena

June 1997

Location	Date	Time Local/ Standard	Rain Length (Miles)	Rain Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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TEXAS West

A cluster of thunderstorms that developed in the Davis Mountains moved south through Brewster County. These storms were moving through much lower dewpoints than the storm in Winkler County, but were able to sustain themselves. Mid and upper level lift in the area from a deformation zone probably weakened the cap in that region. The storm on the western end became dominant, but began to develop to the east. The storm then moved due east across Terlingua Ranch and through the extreme northern parts Big Bend National Park.

Winkler County
10 WNW Kermit
Brewster County
Alpine

23	1710CST				0	0			Hail (0.75)
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27	1800CST 2000CST				0	0			Flash Flood
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Heavy rains from slow-moving thunderstorms flooded the streets in Alpine. Some streets had as much as two feet of water in them.

Upton County

1 SE Midkiff

28	1635CST				0	0	900K		Hail (2.00)
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Two-inch diameter hail destroyed about 3000 acres of cotton southeast of Midkiff.

Upton County

7 E Rankin

28	1838CST				0	0			Hail (1.00)
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One inch hail fell along U.S. Highway 67 east of Rankin.

A day of low shear but high instability and a moderate cap produced one severe thunderstorm in the region. The Initial cell developed in northern Upton County along a left-over outflow boundary from the previous night. The storm drifted over the Midkiff area where it produced large hail. The storm then moved southeast into Reagan County, went through a reorganization, then moved southwest, returning to eastern Upton County. About 10 miles north of Rankin the radar signature showed a moderate overhang. Large hail again began to fall. (The one-inch hail found along Highway 67 had fallen about 35 minutes before, and was believed to have been at least golfball size when it fell.)